

Camera Adaptor

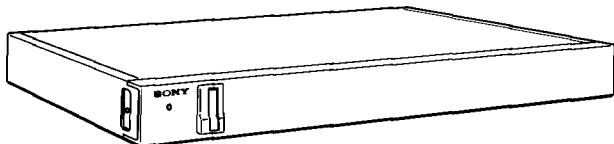
YS-W230

Operating Instructions page 2

Before operating the unit, please read this manual thoroughly and retain it for future reference.

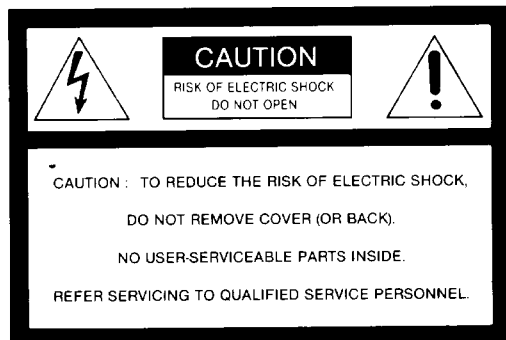
Mode d'emploi page 16

Avant d'utiliser cet appareil, prière de lire attentivement ce manuel et de le conserver pour référence future.



WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located on the rear. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. YS-W230

Serial No. _____

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Outline and Features

The YS-W230 camera adaptor is designed for use with Sony SSC series video cameras as well as the AVC-D7 and DXC-107 video cameras. The YS-W230 is used to transmit the video signal output by the cameras to monitors. The unit also provides power and an internal or external sync signal to the cameras.

The YS-W230 has four camera input connectors and eight video output connectors. You can connect up to four cameras and eight monitors to the unit.

Features

- A single 75-ohm coaxial cable (not supplied) between the adaptor and the camera carries the video output signal, power, and sync signal.
- The unit has a built-in cable compensation circuit. This can switch the video signal compensation level to any of three levels, according to the length of the cable.
- The synchronization selector switch allows the use of an external sync signal.
- The unit is provided with input/output sync connectors. Hence, the YS-W230 can supply a sync signal to other YS-W230s. Thus, you can connect two or more YS-W230s together, up to a maximum of 50 units.
- All cameras connected to the YS-W230 are automatically synchronized with each other.
- Two video output connectors for each camera enable system flexibility.

Notes on Use

Safety

Power supply

- This unit requires 120V AC power supply.
- Be careful not to damage the power cable by placing or dropping heavy objects on it; it is dangerous to use the unit with a damaged cable.
- If you are not using the unit for a long time, disconnect the power cable.
- Unplug the power cable holding the plug, not the cable itself.

Do not disassemble the unit

Do not remove the cover. There is a danger of electric shock from the internal parts.

Do not get foreign bodies inside the unit

Be careful not to spill water or other liquids on the unit, or to get combustible or metallic material inside the cabinet. If used with foreign matter inside, the unit is liable to fail, or be a cause of fire or electric shock.

Do not obstruct the ventilation holes

The ventilation holes are provided to prevent the unit from overheating. Be careful not to obstruct them with other units or by wrapping the unit in cloth etc. If you use the unit in a rack, ensure that there is a gap above the unit.

If a problem occurs

If the unit should malfunction or if a foreign body gets inside, disconnect the power immediately and consult your Sony dealer.

Operation, Storage and Care

Operating and storage locations

Avoid operating or storing the unit in the following locations.

- Extremely hot or cold places (operating temperature -10°C to $+45^{\circ}\text{C}$ (14°F to 113°F)).
- Damp or badly ventilated places
- Locations exposed to direct sunlight for long periods, or close to central heating units.
- Dusty places
- Locations subject to strong vibration

Do not subject the unit to strong impacts

Be careful not to drop the unit, or subject it to other shocks, which could cause it to fail.

Install the unit in a horizontal position

The unit is designed for operation in a horizontal position. Never operate the unit in a vertical position.

Rack mounting

The unit can be mounted in an EIA standard 19-inch rack by using the rack mounting screws (supplied).

Cleaning

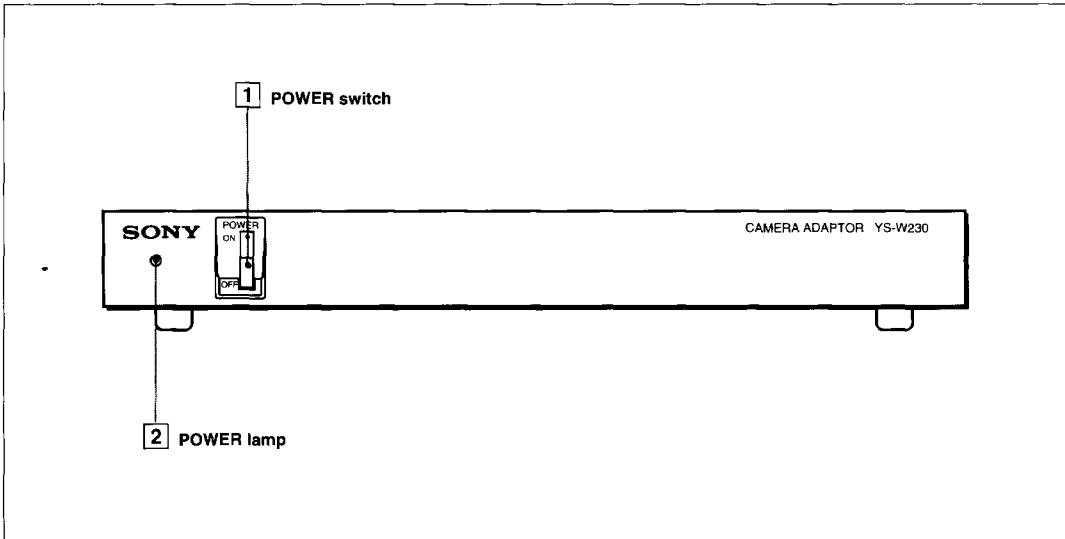
Clean the exterior of the unit with a dry soft cloth. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent, and wipe dry. Avoid the use of volatile solvents such as thinners, alcohol, benzene, and insecticides. They may damage the surface finish, or destroy the indication markings.

Shipping

If the unit has to be reshipped, repack it for maximum protection in the original packaging or similar. Save the original carton and associated packing material. They will be useful should you have to transport or ship the unit.

Location and Function of Parts

Front Panel



1 POWER switch

Turns the power on and off. When you press the ON side of the switch, the unit supplies the power to all connected cameras.

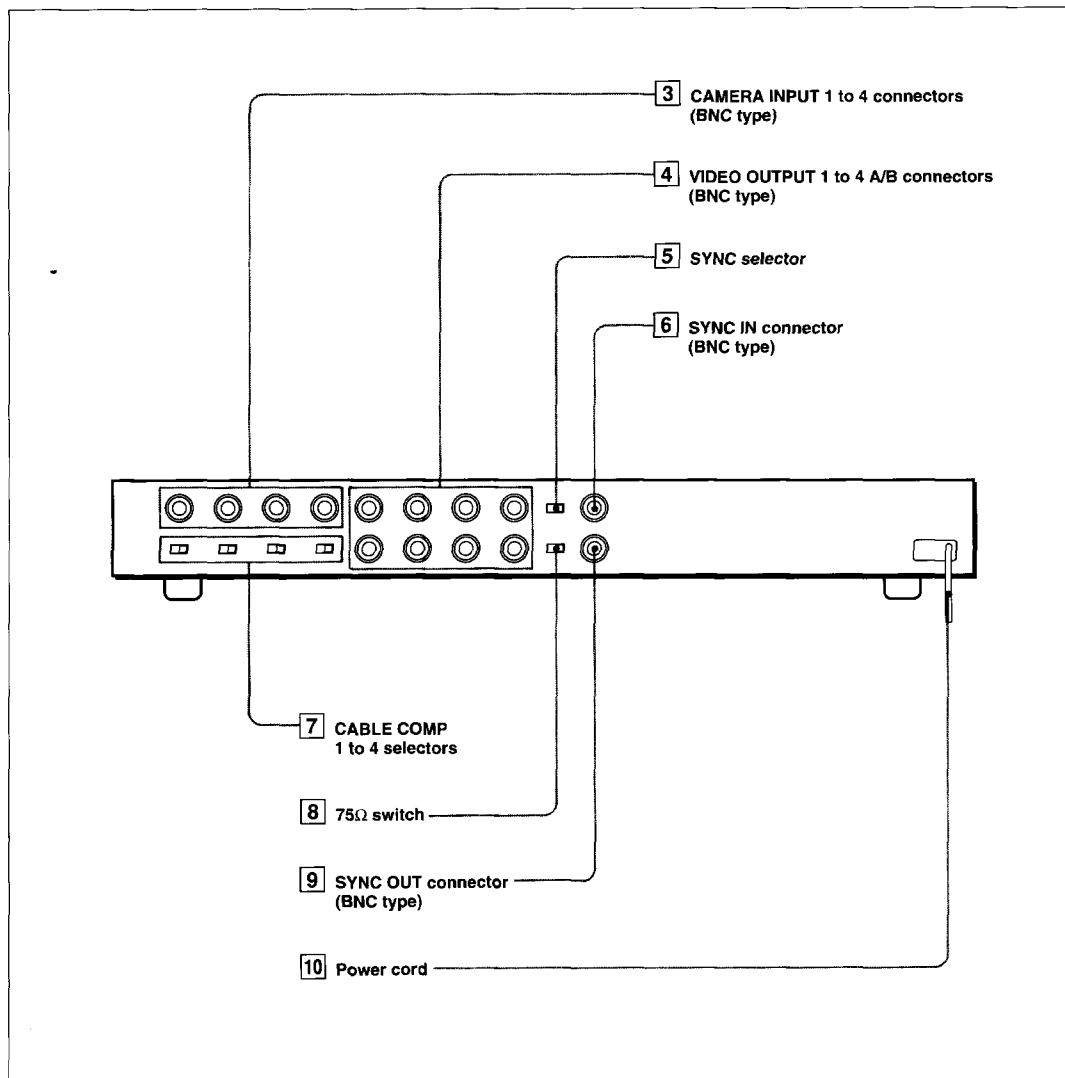
2 POWER lamp

Lights in green when the power is turned on.

Notes

- Connect all cameras before turning the power on. A camera connected after the power is turned on will not operate.
- Never turn the power on again immediately after turning the power off. Wait three to four seconds before turning the power on again.

Rear Panel



- 3 CAMERA INPUT connectors 1 to 4 (BNC type)**
Connect to the camera DC IN/VIDEO OUT connector.

Note

When connecting cameras, be sure to connect a camera to connector CAMERA INPUT 1. If not, the cameras will not be locked to the synchronizing camera output video signal.

- 4 VIDEO OUTPUT connectors 1 to 4 A/B (BNC type)**
Connect to the monitor video input connector. The video signal corresponding to each CAMERA INPUT connector is output. The same signal is output from connectors A and B.

- 5 SYNC selector**

Used to select internal or external synchronization.

INT: Cameras 2 to 4 are locked to the video signal output by camera 1, connected to connector CAMERA INPUT 1.

EXT: Cameras 1 to 4 are locked to the external sync signal input to the SYNC IN connector.

Note

When using the YS-W230, the internal sync signal is the video signal output by the camera connected to connector CAMERA INPUT 1.

- 6 SYNC IN connector (BNC type)**
Inputs the external sync signal (or synchronizing video signal) for external synchronization.

- 7 CABLE COMP selectors 1 to 4**
Selects the compensation for signal loss in the camera connecting cable. Set the switch according to the cable type and length. For details, see "Connection—Setting the CABLE COMP selectors".

- 8 75Ω switch**

Effective only when the SYNC selector is set to EXT.

ON: Set to this position when using only the SYNC IN connector. The SYNC IN connector is 75-ohm terminated.

OFF: Set to this position when using both the SYNC IN and SYNC OUT connectors.

Note

When using neither the SYNC IN connector nor SYNC OUT connector, set this switch to ON.

- 9 SYNC OUT connector (BNC type)**

Outputs the sync signal input to the SYNC IN connector as it is.

Note

No sync signal is output from the SYNC OUT connector when no signal source is connected to the SYNC IN connector.

- 10 Power cord**

Connect to an AC outlet.

Connections

This section explains the making of connections to the YS-W230. This section consists of the following three parts.

- Using one YS-W230
- Using Two or More YS-W230s
- Connecting to a Sequential Switcher

This section also provides notes on the following.

- Cameras you can connect to the unit
- Relation between the length of the camera connecting cable and the CABLE COMP selector setting position

Cameras you can connect to the YS-W230

You can connect the cameras listed in the following table.

Sony SSC series video camera	SSC-C350 SSC-M350 SSC-M370
Sony video camera	AVC-D7
Sony video camera	DXC-107

Notes

- The unit operates only when connected to Sony video cameras listed above.
- When connecting a camera, refer also to the operation manual for that video camera.

Setting the CABLE COMP selector

Setting the CABLE COMP selector compensates for signal loss in the camera connecting cable.

Set the switch according to the cable type and length, as shown in the following table.

When connecting to an SSC series video camera

Switch setting	1	2	3
Cable type			
RG-59B/U (3C-2V)	100m (328ft) max.	200m (656ft) max.	300m (984ft) max.
RG-6A/U (5C-2V)	160m (524ft) max.	330m (1082ft) max.	500m (1640ft) max.
RG-11A/U (7C-2V)	200m (656ft) max.	400m (1312ft) max.	600m (1968ft) max.

When connecting to an AVC-D7 or DXC-107 video camera

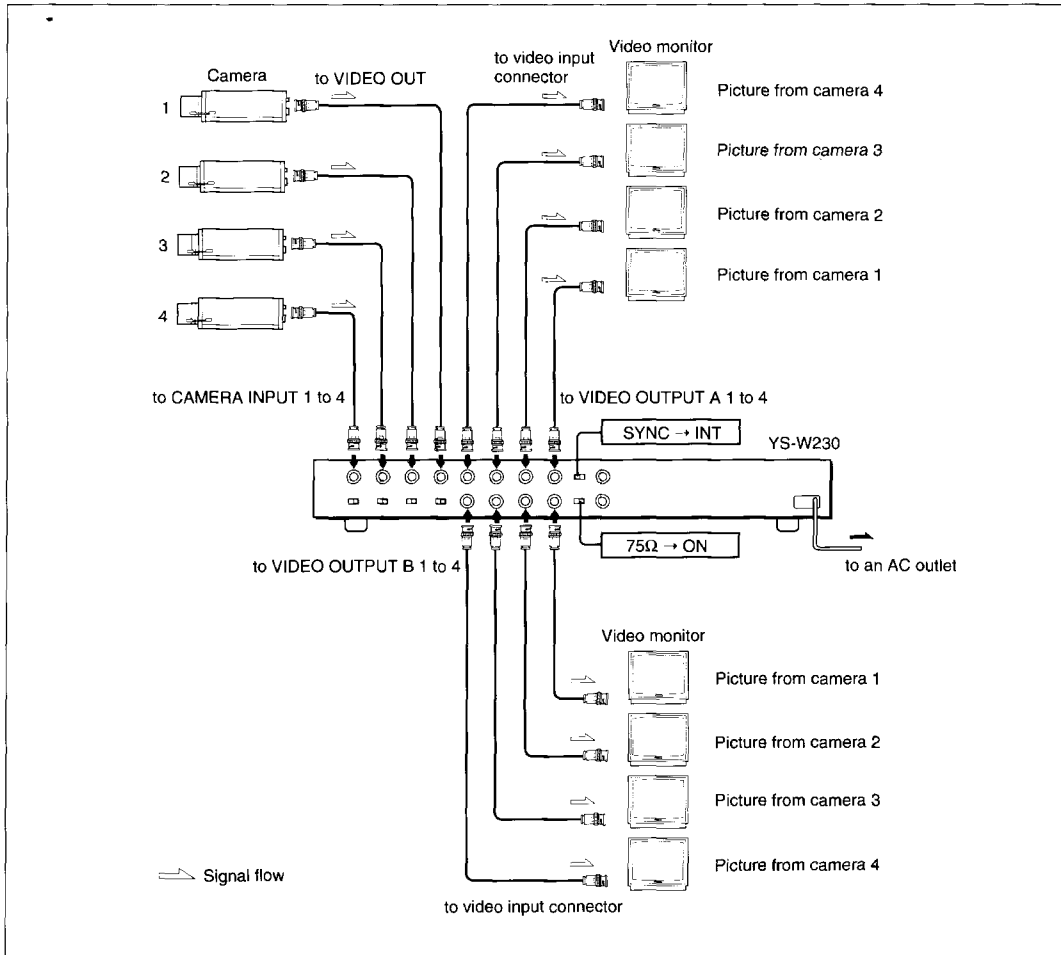
Switch setting	1	2	3
Cable type			
RG-59B/U (3C-2V)	100m (328ft) max.		
RG-6A/U (5C-2V)	160m (524ft) max.		

Notes on connections

- Set all power switches to OFF before connecting any cameras. If a camera is connected to the unit with the power already turned on, the unit will not supply power to that camera.
- The cable connecting the unit to the video camera carries the power supply and sync signal in addition to the camera output video signal. Therefore, you can not insert a booster or similar device into the cable.

Using One YS-W230

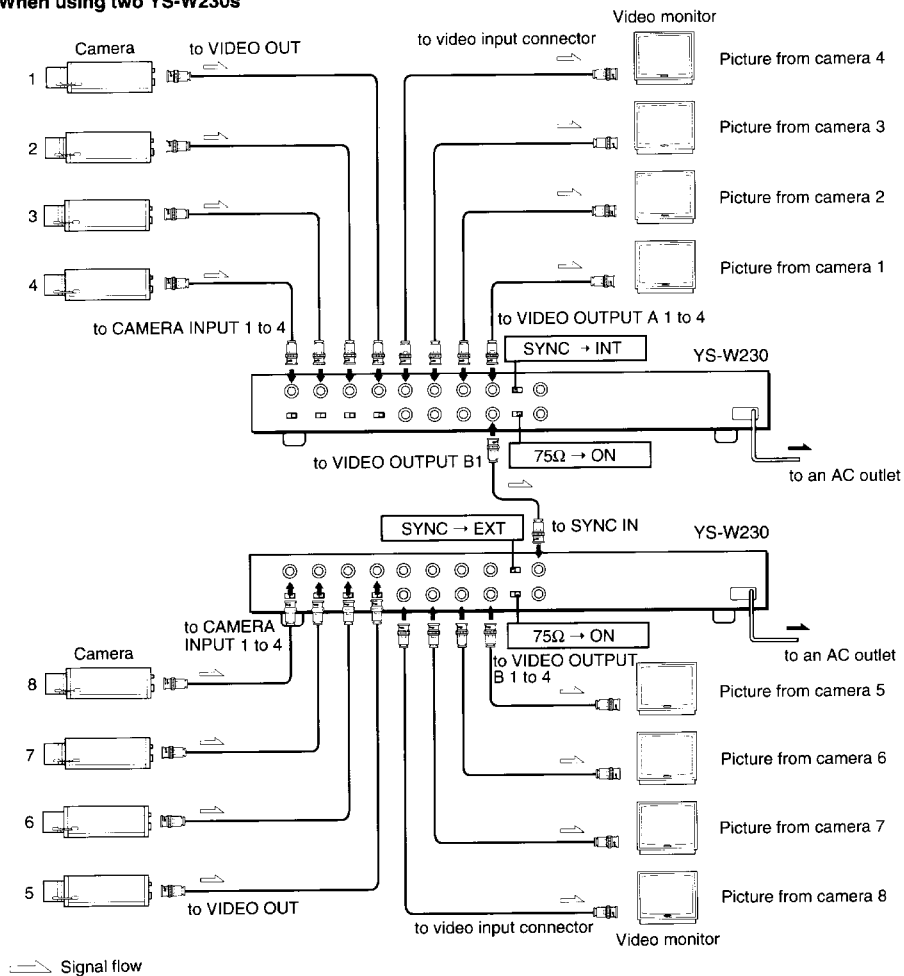
Using one YS-W230, you can set up four independent camera systems consisting of four cameras, with two monitors for each camera.



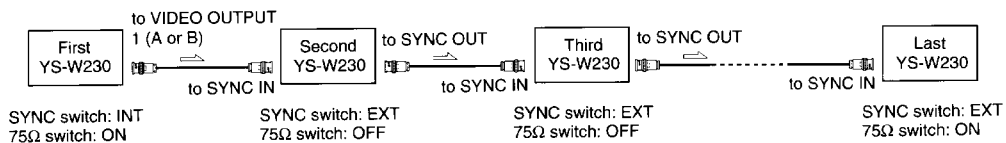
Using Two or More YS-W230s

You can connect two to fifty YS-W230s together. Since the unit provides the SYNC IN and SYNC OUT connectors, all connected cameras can be synchronized with each other.

Example: When using two YS-W230s

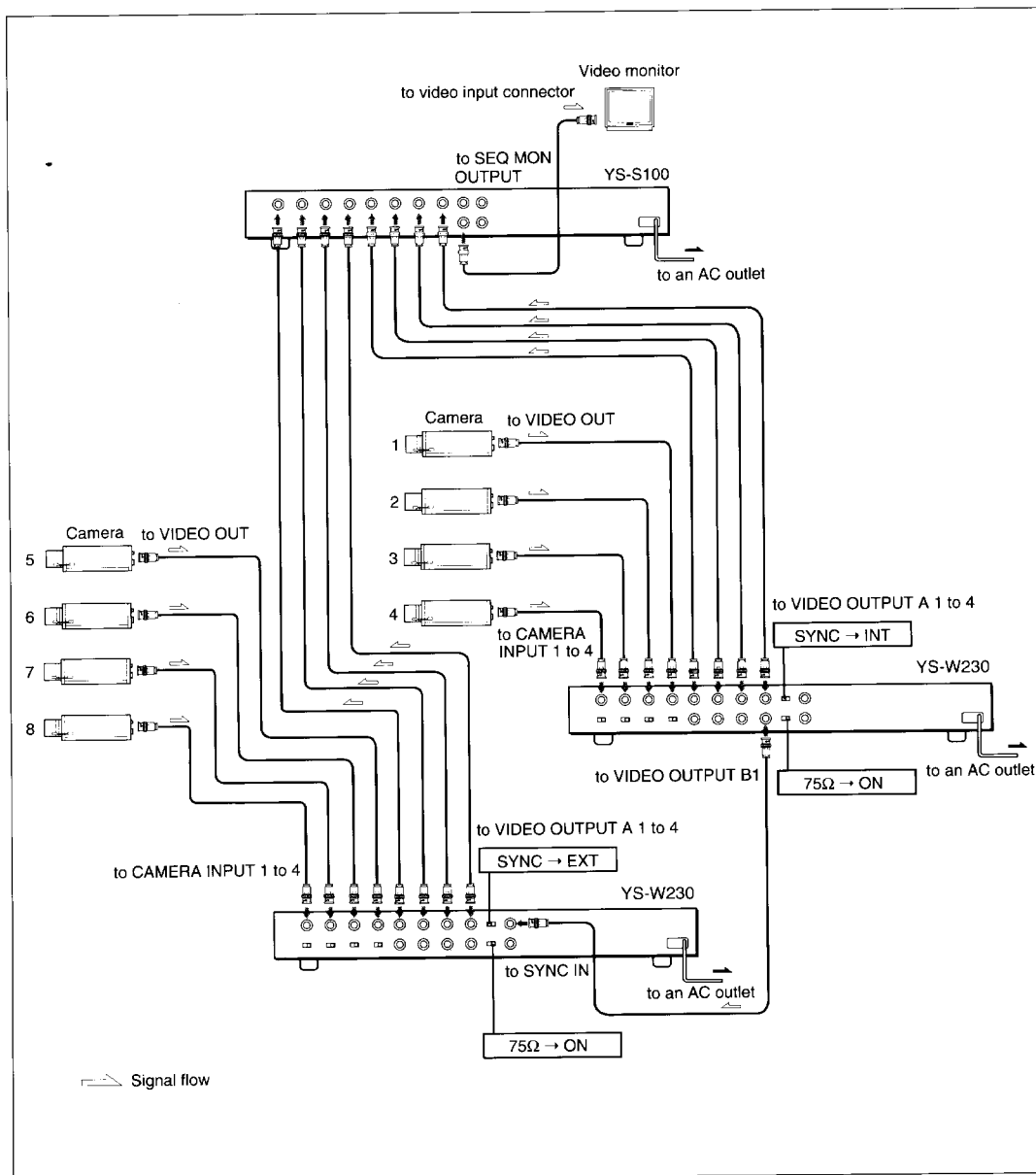


Connection of sync signals and setting of SYNC and 75Ω switches for three or more YS-W230s

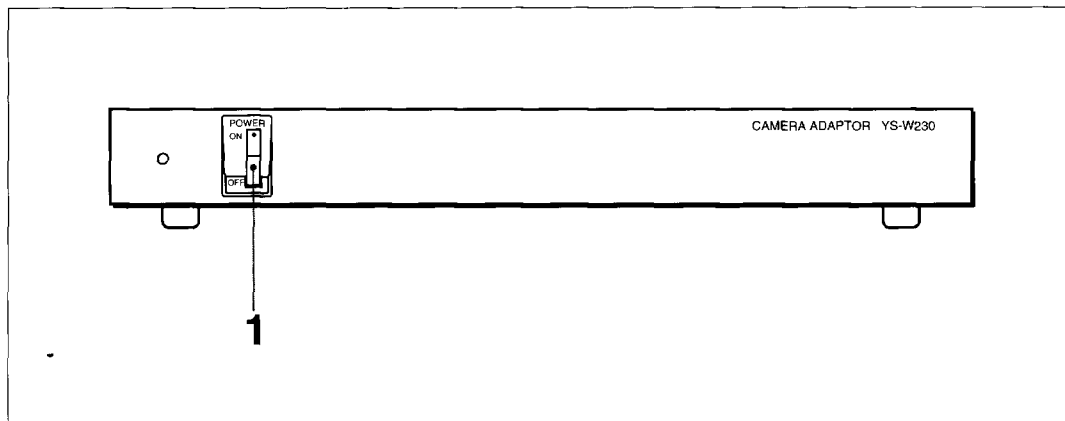


Connecting to a Sequential Switcher

By connecting the units to the YS-S100 sequential switcher (not supplied), you can sequentially view pictures from the cameras connected to the YS-W230s on a single video monitor connected to the sequential switcher.



Operation



1 Set the POWER switch to ON.

The POWER lamp lights. The unit outputs power and sync signals to the cameras, and passes video signals from the cameras to the monitors.

Note

SSC series video cameras are provided with a power switch. When using SSC series video cameras with the YS-W230, the position of the camera's power switch is irrelevant (the power switch does not work).

Specifications

Power supply	120 V AC, 60 Hz	Operating temperature	-10°C to +45°C (14°F to 113°F)
Power consumption	65W	Dimensions	424 x 57 x 352mm (w/h/d) (16 3/4 x 2 1/4 x 13 7/8 inches)
Input connectors	CAMERA INPUT 1 to 4 (BNC) 4 Connect only to Sony SSC- C350, M350, M370, AVC-D7 or DXC-107 cameras	Weight	About 4.0 kg (8 lb 13 oz)
	SYNC IN (BNC) 1 Composite sync signal: 4 Vp-p, 75 ohms terminated VS (video/sync): 1 Vp-p, 75 ohms terminated VBS (video/burst/sync): 1 Vp-p, 75 ohms terminated	Supplied accessories	Rack mounting screws (EIA standard) (1 set) Operation manual
Output connectors	VIDEO OUTPUT 1 to 4 (BNC) 8 Composite video signal: 1 Vp-p, 75 ohms terminated SYNC OUT (BNC) 1 For loop-through output of the signal input to SYNC IN	Design and specifications are subject to change without notice.	

Troubleshooting

Should you have a problem with your unit, first check the following three items and the appropriate item in the table.

- Check the connections.
- Check that the AC power cord is connected.
- Check that the POWER switch is set to ON.

Symptoms	Possible cause and corrective action	Reference page
Power is not supplied to a camera.	• You set the POWER switch of the unit to ON before connecting the camera. — Set the POWER switch of the unit to OFF. Wait three to four seconds, then set it to ON again. • You set the POWER switch to ON immediately after turning the power off. — To turn the power off and then turn it on again, wait three or four seconds before setting the POWER switch to ON again.	5, 9 5
Cameras are not synchronized.	• When using the internal sync signal, you did not connect a camera to connector CAMERA INPUT 1. — Connect a camera to connector CAMERA INPUT 1 and then turn the power on. • When using the external sync signal, you did not connect the sync signal source to the SYNC IN connector. — Connect the signal source to the SYNC IN connector. • You did not set the SYNC switch correctly. — Check the switch setting and set it correctly.	7 7 7
The picture is distorted.	• You did not set the CABLE COMP switch correctly. — Check the switch setting and set it correctly. • The coaxial cable is too long. — Check the cable type and length.	8 8